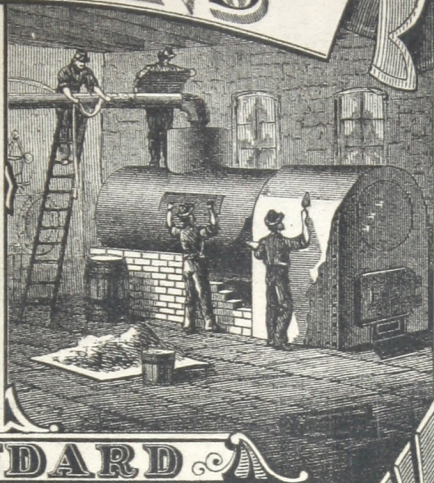




Library of The
Saturday
Afternoon Club

H. W. Johnson
1882

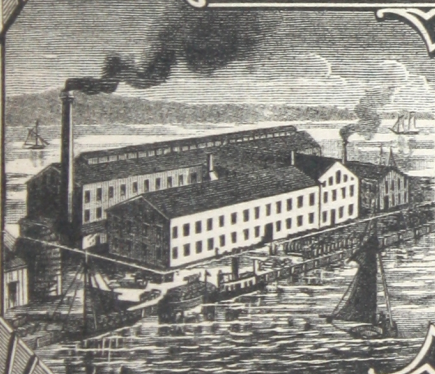
H. W. JOHNS'



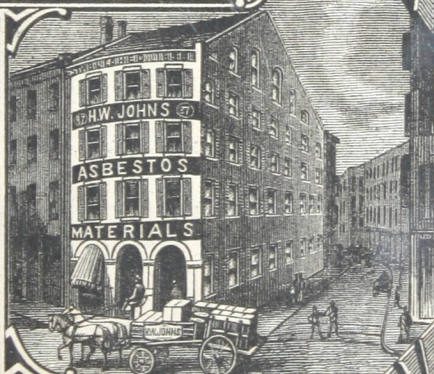
STANDARD

ASBESTOS

MATERIALS.



FACTORY, FOOT OF 39TH ST BROOKLYN



OFFICE 87 MAIDEN LANE, N.Y.

H. W. JOHNS MFG. CO.

87 MAIDEN LANE, NEW YORK.
SOLE MANUFACTURERS.


TO


General Merchants.


If you desire to secure the sale of the most desirable line of specialties in the market, read the following descriptions of our manufactures, and send for our

"Confidential Trade Price List,"

which, with any further desired information, will be promptly furnished.

 We are the MOST EXTENSIVE MANUFACTURERS in this line in the World.

 Our Goods are in every respect as represented.

 They find a ready sale everywhere, at

ALL SEASONS OF THE YEAR.

Copyright 1882 by H. W. JOHNS.

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INDEX.

ASBESTOS,	2
PAINTS,	5
LIQUID WHITE,	7
SAMPLES OF SHADES,	8
ROOF, RAILROAD AND SEASIDE PAINTS,	10
LIQUID DRYER,	14
INSTRUCTIONS FOR USING PAINTS,	16
FIRE-PROOF PAINTS,	18
BLACK LUSTRE VARNISH,	18
ROOFING,	19
ROOF COATING,	22
ROOFING BRUSHES,	22
ROOF CEMENT,	23
ROOFING NAILS,	23
INSTRUCTIONS FOR APPLYING ROOFING,	24
BOILER COVERINGS,	26 & 28
INSTRUCTIONS FOR APPLYING BOILER COVERINGS,	27 & 32
STEAM PACKING,	34
WICK PACKING,	34
ASBESTOS MILL-BOARD,	35
RETORT CEMENT,	36
CONCRETE COATING,	36
HAIR FELT,	37

ασβεστος



This cut represents a specimen of Asbestos (from our own mines) in its natural state.

THE wonderful mineral ASBESTOS is not only *indestructible by fire or acids*, but differs from all other known mineral substances in possessing fibres resembling silk or flax, some varieties of which can be spun, woven and felted, producing Cloth, Felted Sheets, Paper, etc., of a superior quality, and the ordinary varieties can be reduced into a "flock" pulp, or impalpable fibre, in all of which forms it retains its peculiar fibrous and interlacing or binding properties.

ASBESTOS derives its name from Greek words, meaning unchanged by fire. Its non-combustible qualities were known to the ancients, who made a cloth from it in which the dead were wrapped preparatory to burning, and in which the ashes of the body were saved, and it has also been used experimentally in making fire-proof dresses, gloves, etc.

The finer kinds, which are pure white and silky, with long, strong fibres, are comparatively rare and expensive, and are free from "Silex" or "Silicic Acid," while the colored and more compact forms are quite abundant; but, on account of its supposed scarcity, no practical use had been made of it until we utilized it in the manufacture of articles for structural and mechanical purposes, for which it has proven of great value.

ASBESTOS is capable of receiving and retaining the most brilliant colors, is a non-conductor of heat, and possesses many other valuable qualities, which we have developed for new and important uses.

This valuable mineral has, through our instrumentality, been brought to light in vast quantities in many parts of this and other countries, and its peculiar properties and uses made known in all parts of the civilized world.

The growing importance attached to the use of ASBESTOS has induced unscrupulous persons to infringe our patents, and in some instances to associate its *name* with their productions, omitting its *use*, thus injuring the reputation of the *genuine* ASBESTOS materials, of which we are the inventors and sole manufacturers. We therefore take this opportunity of warning the public against worthless imitations and infringements.

H. W. JOHNS MANUFACTURING CO.,

87 Maiden Lane.

NEW YORK, March, 1882.

IN 1858 we commenced the manufacture of Compositions, Coatings and Paints for preserving wood, metals, fabrics, etc., and after a few years produced our well-known portable ROOFING, which in an improved form is now in general use in nearly all parts of the world.

In 1868 we first made known the results of our long-continued experiments with the indestructible, fibrous mineral, ASBESTOS, then comparatively unknown; and having proven its value over all other known substances in the manufacture of materials for many important structural and mechanical purposes, we now produce, on an extensive scale, the various articles herein described, all of which are supplied in compact and portable form, ready for use, and can be readily applied by unskilled workmen.

In 1874 we commenced the manufacture of LIQUID PAINTS on a more extended scale, and our success has been unparalleled, no other paints for structural decoration commanding so high a price in this country or abroad.

The demand for our products has increased so rapidly that we have each year been compelled to extend our manufacturing facilities, until we now have the *most extensive and complete works in the world* for analogous purposes.

We have always aimed to produce materials *of the best quality*, and although we do not claim to have attained perfection, *we challenge the world* to show articles for similar purposes which, in usefulness, durability and perfection of manufacture, equal ours, at approximate prices.

We command every necessary facility for producing our manufactures at the minimum of cost, and shall continue to improve and perfect them to the extent of our ability; and, finding ample remuneration in a small margin of profit, we supply them at lower prices, quality considered, than can be afforded by any manufacturer who makes but one class of goods for similar purposes.

H. W. JOHNS'

LIQUID  PAINTS.


Our Liquid Paints *are composed exclusively of the best and purest materials, combined on different principles from any other Liquid or Mixed Paints.* They have been thoroughly tested in nearly all parts of the world, and have been found to withstand the severest tests of climatic changes, sea-air and other trying exposures where the best white lead has failed. We *guarantee* them to be in every respect *strictly reliable and first-class* paints, of a *higher grade* than have ever before been offered to the public for structural purposes, either in "paste" or liquid form, and second to none in richness and permanency of color, beauty of finish, durability, uniformity, and all characteristics which are requisite to form a perfect ornamental protection for wood, metals and other exposed surfaces. They possess an elastic quality never before attained in any paint, and are prepared ready for the brush, but may be thinned, if desired, the same as any oil paint. See Instructions.

These paints are especially designed for dwellings and other exposed wood and iron structures, for which purposes *they are the most economical and durable paints ever produced*, not excepting the best White Lead, but they are also equal to any others for "inside work" and for general purposes.

None but the purest Linseed Oil enters into the composition of these paints, and they contain no water, alkalies, benzine, or other deleterious and useless adulterations or dilutions; we do not therefore compete in prices with the cheap mixed paints with which the market is flooded, which are composed largely of alkaline water and other inexpensive ingredients. It is evident that paints containing water cannot form a covering equal to pure oil paints unless a larger quantity is used, owing to the fact that, *after having served to spread such paints*, the water quickly evap-

orates, leaving only about half the body which is *supposed* to have been applied—and even if as good in other respects, the “watered paints,” at one-half our prices, would still be more expensive, owing to the additional cost of package, transportation, loss by evaporation or freezing, and *extra labor required in applying two coats*, where one coat of *undiluted paint* would produce, to say the least, an equally good result.

This explanation has seemed necessary to enable us to place ourselves fairly before the public in regard to the prices of our paints, which we claim are as low (quality considered) as those of any other manufacturer.

 We call particular attention to the difference between our *Liquid Paints* and all other prepared paints; the best of the latter consist of colors ground in oil and afterward simply mixed with oil, spirits of turpentine, etc. The entire body of our paints is first ground in oil, and then mixed to the proper consistency, *after which the whole is ground through fine mills*; by this process alone can the pigments and oils be so intimately combined as to produce a perfect paint.

We also call attention to the superior “covering” properties of these paints, *two coats* of which form a body and finish equal to three or four of ordinary paint. *No other paints known equal ours in this respect.* One gallon will cover from 225 to 250 square feet, two coats. They work freely under the brush in cold as well as in warm weather.

Our unprecedented success has demonstrated that *strictly first-class paints* are more economical to the user and more desirable for the dealer; and, *our manufacturing facilities being second to those of no other manufacturer in the world*, we shall continue to spare no pains or expense to make our Liquid Paints what we claim them to be, viz.:


THE BEST PAINTS FOR STRUCTURAL PURPOSES EVER PRODUCED.

They are supplied in packages of all sizes from 1 pint to 40 gallons.

H. W. JOHNS'

LIQUID ASBESTOS WHITE.


We call especial attention to our "ASBESTOS" LIQUID WHITE for out-side and inside work, which we guarantee to be superior in durability and beauty of finish to the best white lead and oil.

 When ordering White, please state if wanted for *outside* or *inside* work. We make "*Egg Shell*" Gloss and *Flat White* for inside work.

In consequence of the constantly increasing demand for the new styles of decoration, we have added to our list sixteen new dark "body" and trimming colors.

We were the first to introduce the rich olive drabs, olive greens, etc., which are now so effectively and tastefully used in the decoration of elegant villas, sea-side hotels, and other structures, in the designing of which more attention has of late been given to architectural beauty than ever before in this country.

We manufacture thirty-two standard shades and trimming colors, and also make STANDARD and light Greens, Blues, Reds, Black, etc.

 Be particular to order paints by the *numbers* of the desired shades.

See Instructions for applying Paints, pages 16 and 17.

STANDARD SHADES.

These Samples are Painted with our Regular and only grade of "Asbestos" Liquid Paints.

NO. 42, PURE GRAY.

NO. 43, OLIVE DRAB.

NO. 44, CREAM.

NO. 45, YELLOW STONE.

SAMPLE SHEETS

NO. 34, BROWN STONE.

NO. 33, YELLOW DRAB.

NO. 46, LIGHT DRAB.

NO. 31, LIGHT GRAY.

OF

ALL

OUR

COLORS

NO. 47, FRENCH GRAY.

NO. 29, LIGHT SLATE.

NO. 19, LIGHT STONE.

NO. 28, DARK SLATE.

WILL

BE

SENT

FREE

NO. 27, MED. DRAB.

NO. 35, BUFF.

NO. 26, DARK DRAB.

NO. 25, EX. LIGHT DRAB.

ON APPLICATION.

We will manufacture any desired shade to order.

We also manufacture Inside and Outside White, Black, Reds, Greens, Blues, &c.

All genuine "ASBESTOS" Paints bear our Trade Mark, and the name, H. W. JOHN.

NEW BODY AND TRIMMING COLORS.

These Samples are Painted with our Regular and only grade of "Asbestos" Liquid Paints.

NO. 55, NILE GREEN.

NO. 51, MAROON.

NO. 56, LIGHT CHOCOLATE.

NO. 57, CHOCOLATE.

SHOW

CARDS

NO. 53, OLIVE GREEN.

NO. 52, OLIVE.

NO. 54, SEAL BROWN.

NO. 58, "ORIENTAL" DRAB.

SHOWING

ALL

OUR

COLORS

NO. 59, GRAY STONE.

NO. 60, DARK RED.

NO. 61, GREEN DRAB.

NO. 63, BLUE STONE.

WILL

BE

SUPPLIED

FREE

NO. 62, DARK GREEN.

NO. 64, DARK OLIVE.

NO. 65, DARK BROWN.

NO. 66, LIGHT BROWN.

TO DEALERS.

We will manufacture any desired shade to order.

All genuine "ASBESTOS" Paints bear our Trade Mark, and the name, H. W. JOHN, & CO.


H. W. JOHNS'



ROOF, RAILROAD AND SEASIDE PAINTS.

THESE Paints are prepared ready for use, and we guarantee them to be better and more economical than any others ever before offered to the public for similar purposes. Although they are comparatively low-priced, they contain no water or other deleterious ingredients or dilutions, and are composed only of such materials as will best withstand rough usage and trying exposures. They possess a more *elastic body* than any other paints, and are less liable to injury from abrasion or other hard usage. They are not as *finely ground* as our "ASBESTOS" LIQUID PAINTS and do not equal them in finish and quality of color, but are equally durable. They were originally designed for preserving TIN AND OTHER ROOFS, but are also adapted for *Out-buildings, Fences, Floors, Railroad Buildings, Bridges, Freight Cars, Steamboat Decks, Exposed Brick Walls, Iron Work, Gas Holders, Ships, Boats, etc.*, and all wood and iron work near or in contact with salt or fresh water. They are manufactured in seven colors, viz.: Brown, Red, Yellow, Gray, Buff, Slate and Cream White, and are supplied in packages of all sizes from 1 to 45 gallons.

One gallon will cover about 400 square feet, one coat.

 Any desired color will be made to order for Railroad Companies or other consumers requiring large quantities.

PAINTS FOR SPECIAL PURPOSES.

Having for twenty-four years made a specialty of manufacturing preservative paints and coatings for Wood, Metals, Fabrics, etc., we are prepared to supply paints of any desired shade for any special purposes.

TO USERS OF PAINTS.

AT the present time it may seem superfluous to speak of the great advantages in the use of prepared paints over the old plan of purchasing separate packages of oil, lead, zinc, colors, turpentine, dryers, etc., and mixing them as wanted. The waste of time and money and the uncertain and frequently unsatisfactory results attendant upon the latter method are apparent to every one.

Prepared Paints will be the only ones used for general purposes in the future. In a few years users of paints will as soon think of journeying long distances by stage-coach instead of by rail, as of mixing their own paints, for the following reasons :

1st. The cost of the packages alone (which are usually "weighed in") containing the different materials required to make any desired shade would be a fair profit for a manufacturer who supplies the required article complete in one package.

2d. The cost of materials in large quantities to an extensive manufacturer is from 10 to 25 per cent. less than to a small purchaser, while all loss on packages is avoided.


3d. No one but a manufacturer with expensive machinery especially adapted to the purpose can properly combine the ingredients of a good paint. Simple mixing of pigments in oil is not enough. We have forty-six liquid mixers, some of them of 500 and 1,000 gallons capacity, in which our paint is at least one hundred times more thoroughly mixed than would be possible without the aid of machinery. Yet this is not sufficient; after mixing to the proper consistency, the paint should be *finely ground* in liquid mills, by which process all our ASBESTOS LIQUID PAINTS are finished. In no other way can the oil and pigments be so thoroughly combined as is necessary to produce a perfect paint. Paints thus made will cover smoothly and uniformly, and there will afterward be no separation of particles, causing "chalking," cracking and scaling.

4th. Uniformity of quality and color is insured when making large quantities, and the user reaps the benefit, even if he requires only a pint of paint to "finish out," no waste being necessary.

5th. Notwithstanding the "paste" paints are recommended by those who make and sell them, as being cheaper than prepared paints, we maintain that the latter of same quality, if properly and thoroughly combined, will do better work at a less cost.

6th. Manufacturers, Railroad Companies, and other large consumers, who employ their own painters, can not only depend upon satisfactory and uniform results when using reliable prepared paints, but can also avoid the waste and loss consequent upon carrying a stock of oil and partly prepared materials.

Finally. If the ingredients of a prepared paint are the best and purest that can be obtained, as is the case with our "ASBESTOS" LIQUID PAINTS, it will be found that from 15 to 25 per cent. can be saved, and better results obtained by their use, than with any paste or mixed paints.

 Ours are the only prepared liquid or mixed paints made, which, in addition to the usual grinding and mixing, are ground while in the liquid state.

The *reasons* upon which we base our claim that our paints are superior to any others heretofore produced cannot be questioned, and our *proofs* consist of the facts that in a comparatively short time they have attained *a larger sale, and at higher prices*, than any other prepared oil paints in this country; and at our prices, which are as low as quality will permit, they have proven as represented—*i. e.*, more economical, for the reason that they do more and better work than any others for the same amount of money.


Price Lists and Sample Sheets of our standard shades and new body and trimming colors will be sent free on application.

WORTHY OF NOTE.

IT is a well-known fact that the more intimately the ingredients of a paint are combined, the more brilliant, solid and enduring are the colors produced. No other paints in the world, excepting "coach" or "artists'" colors, are so thoroughly ground and mixed as ours; and as they are composed exclusively of the best materials, they not only form the most durable protective coating in use for exposed wood and iron work, but also excel all others for purposes of architectural decoration.

They are also more economical than any others, one coat forming a body equal to two of the *diluted*, or so-called chemical paints; and owing to their wonderful covering properties, which are at once recognized by all who use them, the manufacturer, builder or farmer can preserve and beautify his buildings, fences or other wood and iron work, at from one-half to three-quarters of the cost of other liquid paints, or of white lead and linseed oil.

It may be well to mention that our paints are manufactured under the supervision of a practical paint maker of twenty-five years' experience, who was for many years the superintendent of one of the most extensive paint and color works in the United States.


 There are fraudulent and worthless mixtures offered by unscrupulous makers for Asbestos Paints. Be sure and get the genuine, which bear our Trade Mark and the name of H. W. JOHNS.

Our Paints are sold by U. S. Standard Gallon measure.

TO PAINTERS.

One coat of our "ASBESTOS" LIQUID PAINTS will do as good work as two coats of ordinary paints, and we can prove by reference to the best and most extensive painters in this country that you can save money, time and labor by their use *on any class of work*. We supply any desired quantity *in one package*, thus avoiding the expense of the many packages containing the different materials you must purchase if you mix your own paints.


The prejudice formerly existing against prepared, or ready mixed paints, has rapidly disappeared, and no one will deny that paints of any given quality can be more uniformly and thoroughly made, with less expense, by the aid of machinery, than when mixed in the usual way in the shop, and as the cost of oils and pigments in bulk is very much less than when purchased in small quantities, it stands to reason that an extensive manufacturer can, if he will, supply paints of the best quality at a lower price than the painter can make them for, and still have a fair margin of profit. This we are doing, and we shall be pleased to submit samples and prices for comparison with such paints as you use for your best work.

 Special prices will be made to painters by all dealers in our Paints.

H. W. JOHNS' LIQUID DRYER.

This article is warranted superior to any other Liquid or Paste Dryer in the market, in siccative qualities, lightness of color and uniformity. Our Liquid Dryer differs from all others in containing nearly three times the proportion of drying oil ordinarily used. No benzine, resin or other cheap or detrimental ingredients are used in its manufacture. It can be used with entire safety in any paints, and owing to its purity less than one-half the usual quantity is required.

It is suitable for all Linseed Oil Paints, and will not discolor White Lead, Zinc, nor the most delicate tints. It is supplied in nozzle cans of from 1 pint to 5 galls.

 No other Dryer should be used in our paints.

CAUTION.

AS is not unusual with an article of merit, the enviable reputation of H. W. JOHNS' "ASBESTOS" LIQUID PAINTS has tempted imitators to use the name "Asbestos," which we have made so widely known in connection with our paints and other materials; and we find it necessary to caution purchasers against misrepresentations, and to see that every package bears the name of "H. W. JOHNS" and our trade mark,



The finest public and private buildings and most extensive structures in this country are decorated with our paints—among others, the U. S. Capitol at Washington, U. S. Light Houses, Life Saving Stations, Navy Yard and Government buildings generally, the Metropolitan Elevated R. R. of New York, the largest seaside and other hotels, etc., as well as thousands of the better classes of dwellings everywhere.

Our Pamphlet, "STRUCTURAL DECORATION," containing illustrations of extensive hotels, elegant dwellings and other buildings, and describing colors and trimmings used, will be sent free on application.

We have again (the sixth time in eight years) doubled the capacity of our paint works, and our facilities for manufacturing strictly first-class prepared oil paints are *unequaled by those of any other manufacturer in the world.*

We add the assurance that we shall continue to make but one quality of paints, *i. e.*, the best which can be produced from the best and purest materials known, and we shall be pleased to supply any desired information in regard to cost, etc.

INSTRUCTIONS FOR APPLYING

H. W. Johns' Asbestos Liquid Paints.

THESE Paints are of proper consistency for general use, and need only to be *thoroughly stirred from the bottom of the packages before using.* All our paints of same "tone" of color may be mixed to form lighter or darker shades without producing a "muddy" effect, as is the case with ordinary paints. *Dry colors* should never be mixed with these paints. *Colors in oil* may be added at the discretion of a practical painter.

One gallon of our LIQUID PAINTS will cover from 200 to 225 square feet, two coats, on new or old unpainted wood, and from 225 to 250 square feet on painted wood. We advise that they be well "rubbed out" so as to cover fully as much surface as above stated.

For *first coating on new and unpainted wood work*, inside or out, add from one pint to one quart of *raw linseed oil* to one gallon of paint, first covering all knots, resinous and sappy parts with *pure shellac varnish*. Before applying the second coat fill up all cracks and spaces between "weather boards," and cover nail heads with putty.

On all wood work where more than one coat of paint is to be applied, the first coat may be thinned with raw linseed oil.

On *new wood*, for thorough work, apply *two coats* in addition to the first or "priming" coat.

When used in *cold weather*, for all "outside work," from one pint to one quart of pure raw linseed oil may be added to one gallon of our paints, for each coat, in which case one gill of our LIQUID DRYER should also be added.

For *inside new wood work*, if gloss colors are used, apply a coating of shellac varnish to the entire surface of the wood after covering the knots, etc., with shellac, then use our Liquid Paints as instructed above. If "EGG SHELL GLOSS" or "FLAT" WHITE is desired, apply two coats of OUTSIDE WHITE, and finish with one or two coats of either. For old painted inside wood work it is only necessary to apply two coats of "egg shell gloss" or "flat white."

When painting "*inside work*" the temperature should be about 70° Fahrenheit. If this is impracticable, add from one gill to one-half pint of our LIQUID DRYER to one gallon of paint.

Inside wood work which has been painted should be thoroughly cleaned with soap and water before applying our paints.

Newly plastered walls should first be covered with a thin glue sizing (made by dissolving 1 lb. of good glue in 3 gallons of boiling water), after which *three coats* of our OUTSIDE WHITE or "Shades," of regular consistency, should be used. The last coat may be "*flat*," if desired. On old painted walls two coats will be sufficient. The walls should be dry, and the rooms should be well aired in summer or warmed in winter.

When painting *new blinds*, if GREEN is to be used, they should first be "primed" with our No. 29, 28 or 41, and then finished with two coats of GREEN.

Unpainted brick walls should have a coating of raw linseed oil before painting. As our paints possess unusual body, they *must always be well rubbed out.*

All parts of old painted surfaces which show signs of "*scaling*" or "*peeling*," should be thoroughly scraped before repainting.

On all work, each coat should be *thoroughly dry before applying the next.*

For Iron and all other work, with the exceptions stated, use the paints *without the addition of Oil, Turpentine or Dryer.*

Boiled Linseed Oil should *never be used* in our paints, nor in any good linseed oil paints for dwelling or structural purposes, as it has a tendency to cause the paint to peel from new wood work, and to crack on old work. If for any *special purpose* it is desirable that the paint should dry more quick-

ly, a small quantity of our LIQUID DRYER (from one gill to one-half pint to one gallon of paint) may be added. *Japan Dryer* should never be used.

Use none but pure raw linseed oil for thinning these paints.

SUGGESTIONS IN REGARD TO SHADES AND TRIMMINGS.

For dwellings in elevated or exposed situations our Grays and Drabs are most desirable. For dwellings not so situated, or which are surrounded by shade trees, the yellow tints are preferable.

We recommend the following as desirable trimmings, using the darker shades for stiles, etc., and the medium for slats of blinds, panels, etc.:

No. 19,	Trim with	Nos. 34, 27, 26, 52.
" 25,	" " "	34, 27, 26.
" 29,	" " "	28, 65, 63, 51, 60.
" 31,	" " "	29 28, 26.
" 33,	" " "	34, 27, 26, 65.
" 35,	" " "	45, 34, 33, 27, 26.
" 42,	" " "	43, 27, 61, 26, 59.
" 43,	" " "	52, 59, 64, 53.
" 44,	" " "	45, 33.
" 45,	" " "	34, 26, 54.
" 46,	" " "	27, 26, 54, 66, 34.
" 47,	" " "	29, 28, 34.
" 52,	" " "	64, 51, 53.
" 56,	" " "	57, 54, 65.
" 58,	" " "	59, 52, 64, and 60 for beading, etc.
" 59,	" " "	51, 64, 61, 65, and 60 for beading, etc.
" 60,	" " "	64, 53.
" 64,	" " "	51, 53, 60.

Many other tasteful combinations may be made to suit individual tastes; the above are suggested as being in proper harmony or contrast.

Where the moulding, cornice or other ornamental work is heavy, *i. e.*, presenting a large surface, the lighter trimming shades should be used, and where the ornamental work is light and graceful in design, the darker trimming shades are more effective. When any green shade is used on blinds, use any of the red shades for sashes, beading, etc., and *vice versa*.

For Iron Buildings, Ornamental Villas, Sea-Side and Summer Hotels, etc., very rich and effective trimmings are made with combinations of Nos. 60, Dark Red, 51, Maroon, 52, Olive, 53, Olive Green, and 54, Seal Brown.

OUR STANDARD GREEN may be used for blinds with the following "body" colors: Nos. 44, 45, 33, 19 and 35.

Nos. 43, 46 and 29 are extensively used for large and solid structures without trimming.

White is always appropriate for window sashes, although Red, Maroon, etc., are often used with good effect.

A most perfect representation of brown stone and Nova Scotia stone may be produced by sanding Nos. 34 and 19.

*If the paint in any package is not all used it may be kept in good condition by closing the package **air-tight**. If the paints have been standing a long time in the package, pour off the thinner portion into another vessel and stir the remainder **thoroughly**, after which the whole can be easily mixed.*



ASBESTOS FIRE-PROOF PAINTS.

— This Paint has been applied to nearly five acres of wood work in the two immense Dry Goods Stores of Messrs. A. T. Stewart & Co., of New York City. —

THESE are strictly fire-proof Paints, composed solely of ASBESTOS and other fire-proof ingredients, prepared ready for use, *exclusively for inside work.*

They are designed especially for the protection of interior wood work in Factories, Cotton Gins, Picker and Boiler Rooms, Railroad Buildings, etc., and other structures in danger of ignition from sparks, etc., and where not exposed to the weather are as durable as ordinary paints. They are supplied in white and very light tints, and cost only about one-third as much as the ordinary liquid paints.

They contain no oil, but can be applied in the same manner as oil paints. Two coats are recommended. If found necessary to thin them, use a very little warm water. Where greater protection against fire is necessary, this paint may be applied over our ASBESTOS CONCRETE COATING.

 These paints are not intended for outside work. 

BLACK LUSTRE VARNISH.

This is a quick drying Varnish adapted for coating heated iron work, such as Smoke Stacks, Steam Pipes, etc., and for the use of manufacturers of Steam Boilers, Iron Castings, etc., for which purposes it is as durable as the finer varnishes. Steam and dry heat will not injure it. It is supplied in barrels and kegs.



H.W. JOHNS' PATENT ASBESTOS ROOFING

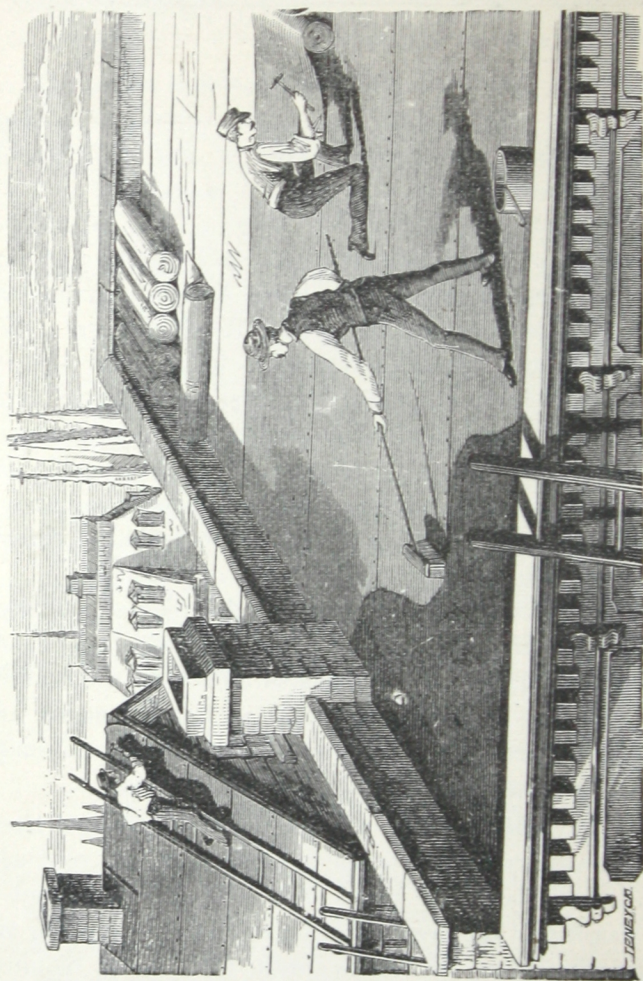
OUR Patent Improved ASBESTOS ROOFING is *entirely different from any other material in use*, and consists of a *strong Canvas*, combined with a surface layer of *Felt* and a *Manila Lining*. These materials are rendered water-proof and cemented together with intermediate layers of our patent *Acid and Water-proof Composition*, and the whole compressed into a compact flexible sheet resembling leather, forming the strongest and most substantial portable Roofing in use. This, when applied and finished according to instructions with the ASBESTOS ROOF COATING and the white Fire-proof Coating, forms a light, cool roof, which, although not claimed to be absolutely indestructible by fire, is proof against burning sparks and cinders, and, in every instance which has come to our knowledge, has proven a *perfect protection* where buildings covered with it have been exposed to fire.

This Roofing is adapted for *steep or flat* roofs of Factories, Foundries, Warehouses, Railroad Buildings, Bridges, Car Roofs, Steamboat Decks, etc. It is suitable for *all climates*, and has been used in all parts of this country, and in South America and Europe, a sufficient length of time to warrant us in claiming it to be *the best and most economical substitute for tin*.

It can be easily applied, without the aid of skilled labor, it being necessary only to fasten it properly to the roof with our ROOFING NAILS, to make tight joints and laps, and to coat it thoroughly and evenly, which can be readily done by any intelligent workman—no heat or special tools being required.

It is supplied ready for use in rolls about 39 inches wide, containing 200 square feet, and weighs, with coatings complete, only about 70 lbs. to 100 square feet. It is packed in strong

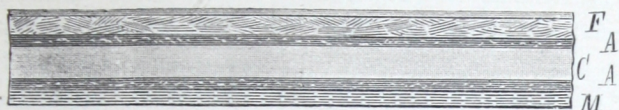
skeleton cases, and is taken at the lowest (fourth class) freight rates by all railroads. It can be more cheaply transported and applied than any other roofing.



Mode of applying H. W. Johns' Patent Asbestos Roofing.

As irresponsible parties have offered for sale inferior materials, representing them as ASBESTOS ROOFING, particular attention


is called to the following cut, showing, on an enlarged scale, the foundation of the *genuine* ASBESTOS ROOFING; the actual thickness is about one-tenth of an inch.



F—Felt; AA—Layers of Water-proof Composition; C—Canvas;
M—Manila Lining.

This Roofing can be easily repaired if necessary, and kept in order *at a trifling expense* by an occasional application of the ASBESTOS ROOF COATINGS, which are prepared ready for use, and when properly applied to a good foundation of sheathing boards, and occasionally re-coated, it forms a reliable and economical roof. In many instances it has proven more durable than tin—the roofs of Kingsford's Oswego Starch Factory, which were covered with our Roofing in 1861, are as good to-day as when first applied—and we can refer to thousands who have had our roofs in use from five to ten years.

This Roofing is ten times stronger than any other Felt or Composition Roofing in use, and owing to our extensive manufacturing facilities (we manufacture more than *two miles* of it per day), we can supply it at a LOWER PRICE, QUALITY CONSIDERED, THAN ANY OTHER KIND OF ROOFING IN USE.

 To insure a serviceable roof, follow instructions on page 24.

ASBESTOS ROOF COATING.

THIS coating is manufactured expressly for finishing our ASBESTOS ROOFING, and is composed of finely ground ASBESTOS and *Silica*, combined with our patent *Acid and Water-proof Composition*, and partially distilled coal tar. It is *prepared ready for use*, of a proper consistency to be applied with a brush, and forms an inexpensive and durable water-proof coating, which is also valuable for preserving wood and iron in contact with salt water and chemicals, and for underground wood and iron work, etc.

It is supplied in kegs and barrels, can be easily applied by any one, and costs only about one-quarter as much as ordinary paint.

We also manufacture an EXTRA HEAVY COATING for restoring old leaky Felt roofs, etc.

ASBESTOS FIRE-PROOF ROOF COATING.

This article is composed of strictly fire-proof ingredients, and is put up in barrels and kegs, in a dry state, to be mixed with water and applied with a brush. It is designed exclusively as a finishing coating for our Roofing, and forms an additional protection against fire, while it renders the roof much cooler, owing to its light (nearly white) color.

This Coating is always supplied with our Roofing, *but is not sold for other purposes.*

ROOFING BRUSHES.

Our ROOFING BRUSHES are manufactured expressly for us, and are *the best Brushes made for such purposes*; they should always be used for applying the ASBESTOS ROOF COATING and ROOF PAINT.

ASBESTOS ROOF CEMENT,

FOR REPAIRING LEAKY ROOFS, &c.

THIS CEMENT is prepared ready for use, and is composed of ground ASBESTOS, combined with *iron* paint and our patent *Acid and Water-Proof Composition*. It forms an elastic adhesive compound of a proper consistency to be easily applied with a trowel, and is intended for repairing leaks around chimneys, dormer windows, sky-lights, scuttles, etc., on all kinds of *Roofs*, broken joints, nail and rust holes in *Tin Roofs*, etc.

We guarantee it to stop all leaks to which it is properly applied, and, in many instances, roofs which are seemingly worthless can be made serviceable for many years with this CEMENT in connection with our ASBESTOS ROOF COATING, or ROOF PAINT.

Tinners will find this CEMENT superior to solder for repairing Tin Roofs, etc. Loose or broken slates can be fastened with it. It can be easily applied by any one.

It is made in two colors, *Brown* and *Black*, and is put up in 10 lb. pails, and in 25 and 50 lb. kegs; also in cases containing one dozen 10 lb. pails for the trade.

Full instructions for Repairing Leaks on all kinds of Roofs on every package.

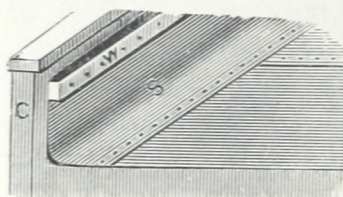
ROOFING NAILS.

Our *Barbed* ROOFING NAILS are made with extra large heads, of the best *Swedes Iron*, and are superior to any others for the purpose in use. About $1\frac{1}{2}$ lbs. are required for one square of Roofing.

INSTRUCTIONS FOR APPLYING H. W. JOHNS' PATENT ASBESTOS ROOFING.

The **INSIDE** of the Roll should be laid **DOWN** as shown in Cut.

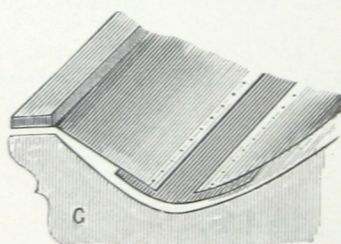
First unroll the roofing and cut in proper lengths, then commence at the lower part of the roof, and lay the Roofing *perfectly smooth*, and *parallel with the gutters*, FELT SIDE UP, nailing about *three-eighths of an inch* from the lower edge with ROOFING NAILS *not more than one inch apart*—lapping the next strip *one and a half to two inches* over the lower one. *The Roofing should be cemented between all laps and joints with the ASBESTOS ROOF COATING.* Where there are no coping walls the Roofing should be cemented at the edge of the roof with the ROOF COATING, thickened with *Hydraulic Cement*, or any dry mineral paint, to the consistency of mortar, and nailed closely, and afterwards covered with a wood strip or moulding, securely nailed. This should be carefully done, to prevent penetration of dampness in stormy weather.



the *thickened ROOF COATING*, to form a perfectly water-tight joint.

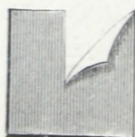
To insure perfect joints around chimneys and other upright surfaces, the roof boards and the Roofing should be fitted as closely as possible, and the angles should be made tight with the *thickened ROOF COATING*, before finishing with the *strips* of roofing.

At all tin and other metal connections, such as Leaders, Ventilating Pipes, etc., the Roofing should be carefully cemented and nailed.



If GUTTERS are lined with this Roofing, use a separate strip in the bend (as represented in cut G), cement the laps, nail closely, and apply an extra coating.

Avoid making bends over sharp angles, and take care not to injure the surface of the Roofing before coating.



In fitting around *corners* of chimneys, etc., take a piece of Roofing, six or eight inches square, and cut half in two—see cut—and bend into the angles, fitting tightly around corners, cementing *before* finishing with the strip of Roofing, taking care to lap all edges so that water will run *over* and not against them.

After the laps are cemented and nailed, first coat *all edges of the Roofing, covering the nail-heads and filling up the edges as much as possible, and afterward apply the ROOF COATING thoroughly to the entire surface of the roof* with our ROOFING BRUSH or a well-worn Whitewash Brush, and as soon as this is dry apply a second coating. The last coating should be evenly sanded with *clean, coarse, dry sand*. After the last coating is thoroughly dry the roofing should be finished with our ASBESTOS FIRE-PROOF COATING, which will give the Roofing a light-colored surface, which not only refracts the rays of the sun, and forms a cool roof in summer, but also adds to its durability.

The Roofing should be coated with the ASBESTOS ROOF COATING before being exposed to storms.

This Roofing may be applied over shingles, first nailing down all which are loose or badly warped; but *well-seasoned sheathing boards, laid closely together, or "tongued and grooved,"* form the only proper foundation for a serviceable roof.

SPECIAL INSTRUCTIONS.

The ASBESTOS ROOFING should be nailed *only* at the edges.

Use our *barbed* ROOFING NAILS in all cases.

Care should be taken not to leave nails on the roof to be stepped on.

When applying the ASBESTOS ROOFING on *steep roofs* use a ladder fastened at top of roof, to avoid standing on the Roofing.

IF APPLIED IN COLD WEATHER, keep the Roofing in a warm room a few hours previous to using. The Roofing and Coating should not be applied when the thermometer is below 40° Fahrenheit.

It is important that every part of the Roofing, particularly all edges, should be thoroughly and evenly coated; and as a strong, stiff brush should be used, we advise the use of our ROOFING BRUSHES, which are made expressly for the purpose.

To insure a serviceable roof, examine this Roofing *within one year after it is applied* (if any defects or imperfect joints are found, put them in order), and re-coat the whole roof with ASBESTOS ROOF COATING, *sanding and finishing with the FIRE-PROOF COATING*, and afterward re-coat as often as necessary to protect the foundation—at least once in two or three years. In this respect it should be treated the same as a tin roof.

Two gallons of ROOF COATING should be used, for two coats, on one "square" (100 sq. ft.) of Roofing, and this quantity will be supplied by all who deal in our goods.

We particularly request those who sell and apply our Roofing to furnish a copy of these Instructions to all who use it, and to call attention to the fact that it requires occasional re-coating, the expense of which is but a trifle.

The ASBESTOS ROOF COATING *must be well stirred* from the bottom of the barrel or keg before using. In cold weather it may be *warmed* (not boiled), and thinned while warm (about blood heat) with Benzine; from half a pint to one pint of Benzine to the gallon will be sufficient.

THE FIRE-PROOF COATING is furnished dry, and should be mixed a few hours before using, with water in proportion of two quarts to 8 or 9 lbs. (about 5 dry quarts), which will make about one gallon. *Stir thoroughly when using, and apply with an old white-wash brush or a broom, over sanded surfaces only.* One thin coat only is necessary. One gallon will cover 150 sq. ft.

H. W. JOHNS' PATENT ASBESTOS CEMENT FELTING,

A Non-conducting Covering for Steam Pipes, Boilers, etc.

There is no other ASBESTOS CEMENT FELTING.

There are inferior mixtures which have been made and so called, by unscrupulous manufacturers, and it is therefore important that purchasers should send for samples and examine the material they purpose using before making contracts, and also that they see that the material used corresponds with samples.

The *genuine* ASBESTOS CEMENT FELTING is composed of Fibrous ASBESTOS and a Cementing Compound, which forms a light porous covering partaking of the nature of a *felt* and a *cement*, to be used as a mortar and applied with a trowel to Steam Pipes, Boilers, Stills, etc., while heated.

The ASBESTOS CEMENT FELTING is a *strictly first-class article*, containing no refuse hair or other offensive ingredients, and forms a more effectual non-conductor than any other cement, mortar or so-called "felting" of equal, or even greater thickness, the saving of heat being *real*, as well as apparent, which is not the case with the common cement coverings, *which, being applied twice as thick, furnish a larger radiating surface*, by which many are deceived.

It is put up in barrels *dry*, to be mixed with water to the consistency of mortar, or it will be supplied ready for use, and can be readily applied by an ordinary mason or plasterer. One barrel will cover a surface of about 50 square feet, one inch thick, *flat* measurement.

It is usually sent *dry* to save cost of freight. It weighs *Dry* about 165 pounds to the barrel, and *Wet* about 300 pounds.

Our EXTRA CEMENT FELTING for covering HOT BLAST PIPES and other fire-heated surfaces, being strictly fire-proof, is also valuable as a Fire-Proof Lining under slate and other roofs, and as a "deadening" for floors, etc.

INSTRUCTIONS FOR APPLYING

H. W. JOHNS' PATENT

ASBESTOS CEMENT FELTING

TO

STEAM PIPES, STATIONARY BOILERS, STILLs, ETC.

We advise the use of the ASBESTOS CEMENT FELTING on Stationary Boilers, Pipes, and all Surfaces where Steam Pressure is over 90 lbs. The EXTRA CEMENT FELTING should be used on Hot Blast Pipes, Smoke Pipes and Superheated Surfaces.

FIRST, mix a small quantity of the CEMENT FELTING with water, just thin enough to be rubbed or brushed on the surface to be covered—it will dry very quickly and form a coating to which the material will adhere firmly.

Second, mix any desired quantity with water, to the consistency of ordinary mortar,* working it thoroughly with a hoe until the whole mass is perfectly amalgamated; then apply with a trowel small patches or lumps, to form a rough surface preparatory for the next coating; after which apply additional coatings about one-half of an inch thick, until the desired thickness is attained. Each coating should be dry before the next is applied.

The thickness ordinarily required will be about as follows:

On STEAM PIPES under 1 in. diameter, - - 1 inch thick.

“ “ “ 1 in. diameter and upward, 1 to 1½ “ “

On STEAM BOILERS, DOMES, STILLs, &c., 1½ to 2 “ “

On HOT BLAST PIPES, SMOKE STACKS and other superheated or fire-heated surfaces the EXTRA CEMENT FELTING should be applied from two and a half to three inches thick, according to degree of heat, and may be more thoroughly secured by wood strips or laths, three or four inches apart, embedded in the surface of the CEMENT FELTING, and bound firmly on the outside with hoop iron, drawn tightly with stout wire passed through holes in the ends and twisted firmly.

After the last coat is dry, it may be painted if desired with our Fire-Proof Paint.

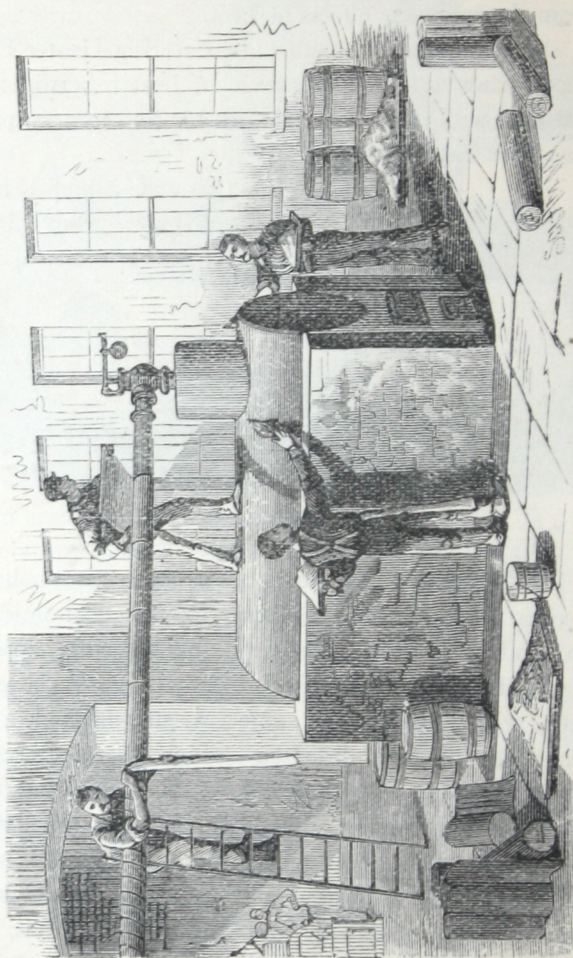
Steam Pipes, Stills, etc., which are exposed to the weather, should be encased with wood, or coated, after the CEMENT FELTING is applied, with our ASBESTOS ROOF PAINT.

The ASBESTOS CEMENT FELTING may be applied to all surfaces in the same manner as in using common mortar, taking care to hold it in place until it is “set.”

On surfaces of Boilers, Flues, Stills, Vats, Vacuum Pans, etc., the CEMENT FELTING should be secured with wires, passing down through the material every three or four inches.

* The ASBESTOS CEMENT FELTING will be supplied *wet* or ready for use if desired.

the most effective appliance for these purposes previous to the introduction of our Asbestos Coverings, and so long as it remains uninjured, forms a desirable protection ; but, as is well



Mode of applying H. W. Johns' Asbestos Cement Felt and Air Chamber Covering.

known, hair in contact with heated surfaces soon loses its vitality, and becomes a dry, crisped mass, possessing no non-conducting power, and often becomes ignited, and destructive to life and property. This charring and burning is effectually prevented

by the use of our ASBESTOS CEMENT FELTING OR ASBESTOS LINING FELT. See instructions.

Many Cements and so-called "Feltings" have been sold and applied for preventing radiation from heated surfaces, none of which have proven durable or satisfactory as *real* "non-conductors." Most of these mixtures, sold under various names, have few advantages over common mortar; and when applied in thick masses they are deceptive, as they furnish a large radiating surface, and thereby apparently effect a saving, which is not real. For instance, an uncovered *inch* pipe filled with steam will show a certain quantity of radiated heat—the radiating surface of this pipe is about 38 square inches to the running foot—cover this with any of the mixtures referred to, say one and a half inches thick, as ordinarily applied, and the radiating surface is increased to 150 square inches, or about *four times the original surface to radiate the same quantity of heat*: such a covering will be comparatively cool to the touch, but a proper thermometric test will show that nearly the same quantity of heat is lost as though a thinner coating were applied, owing to the fact that the covering is in no sense a "non-conductor." Other forms of covering, with a continuous air space between the heated surface and the covering, which serves as a ventilator or draught to carry off the heat, rendering the surrounding air cool—and with other palpable deceptions and faults which can be named—are equally valueless, and the loss of fuel goes on; and in consequence of these obvious imperfections it has become a settled conviction in the minds of many, that the usual quantity of coal must be burned to produce the required steam power.

In view of these facts, we cannot too strongly urge upon users of steam the importance of securing safe, reliable, permanent and effective non-conductors for Steam Pipes and Boilers, and we are prepared to prove to the satisfaction of every one, that there are no others which in these respects equal our improved Asbestos Coverings.

INSTRUCTIONS FOR APPLYING

H. W. JOHNS'

ASBESTOS AIR CHAMBER COVERINGS.

FIRST, apply the ASBESTOS LINING FELT to cover all surfaces, two thicknesses. It may be cut in lengths of one inch more than twice the circumference of the pipes, and wound twice around in sections, fastening each with a single "turn" of twine, then cut the Hair Felt crosswise of the sheet in strips one inch larger than the circumference of the covered pipe, and bind firmly over the ASBESTOS LINING FELT with twine, winding spirally four or five turns to the running foot; next cut the NON-POROUS SHEATHING crosswise of the sheet, in lengths two or three inches larger than the circumference of the Hair Felt. Tie temporarily, and paste the lap with common flour paste, applying carefully so the surface will be smooth. This forms the SINGLE AIR CHAMBER, which is suitable for small (one inch or less) steam pipes, "return and exhaust" pipes, etc.

To form DOUBLE or TRIPLE AIR CHAMBERS, add alternate layers of Hair Felt and NON-POROUS SHEATHING, and finish these coverings with canvas.

The DOUBLE AIR CHAMBER COVERING will be sufficient for all ordinary purposes where steam pressure is not over 90 lbs.

The edges of the AIR CHAMBER COVERINGS around fire doors or fire-heated surfaces should be bound with strips of tin or zinc to lap three or four inches on BOTH sides and fastened with clinched nails driven through holes punched in the strips; or the covering may be cut three or four inches short of the fire doors, etc., and the spaces covered and finished with the ASBESTOS CEMENT FELTING.

HEATER PIPES FROM FURNACES, SMOKE PIPES, ETC., should be covered with three or four thicknesses of the ASBESTOS LINING FELT and finished with the ASBESTOS SHEATHING, which can be cemented with common flour paste.

TO USERS OF STEAM.

THE business of applying Non-conducting Coverings to steam pipes, boilers, etc., has long been considered a sort of "craft" which none but the initiated could understand, and owing to the deception in measurements, such work being usually charged for by the superficial foot, *measured after completion of the work*, its cost has always been surprising to users of steam. Our improved appliances for these purposes can not only be readily applied by unskilled workmen, but we have tabulated their cost so that the total expense can be easily ascertained by taking the lineal measurements of pipes and surface measurements of boilers and other large surfaces, and by comparing our prices with those usually charged for inferior coverings (which require to be from 25 to 50 per cent. thicker than ours), it will be apparent that a corresponding saving can be effected, and better and more durable results attained.

Many instances are known where buildings and steamships have taken fire from HAIR FELTS in contact with steam-heated surfaces. This cannot occur where our ASBESTOS CEMENT FELTING is used.

One great advantage gained by use of our ASBESTOS COVERINGS is the reduction of temperature in rooms containing steam boilers and pipes to a degree never before attained by any other form of non-conducting covering.

These improved appliances have been thoroughly tested in the largest manufactories, public buildings, etc., and have shown results in saving of heat and fuel far exceeding those obtained by any other known methods.

Estimates of cost of Asbestos Coverings, with advice as to requirements of special cases, will be furnished upon receipt of lengths and sizes of pipes, or description and measurement of the surfaces to be covered, and number of pounds of steam pressure.

ASBESTOS STEAM PACKING.

Our improved ASBESTOS PACKING, recently perfected, has been subjected to the severest tests, and is now for the first time offered to the public. It is composed exclusively of the best quality of pure Asbestos fibre made in the form of a compact rope, the strands of which may be separated or combined to fit stuffing boxes or joints of any size or shape, and applied in the same manner as the ordinary Hemp Rope Packing, forming the most perfect, compact and durable packing ever produced for locomotive, marine and other engines, valve stems, etc. It is self-lubricating, requires less oil than any other, and will *wear ten times as long* as the packings in general use.

This Packing is not only superior to any heretofore produced in point of durability and ease of application, but can be supplied at a lower price than any other ASBESTOS PACKING. It is indestructible by acids, long exposure to dampness or any degree of heat. The cheaper kinds of oil, made from petroleum, work equally well with it as lard or sperm.

This packing is finished with a hard smooth surface, to prevent the adhesion of dust or gritty substances, but with slight handling it will become as pliable as the best hemp or cotton packing. It is furnished in regular sizes, from one-quarter to two inches in diameter, and is supplied on reels containing about 25 and 50 pounds.

DIRECTIONS FOR USING.

Before cutting into the desired lengths wind the packing with two or three turns of common cotton cord or twine so that when cut, the ends of the strands will not separate; then saturate with the same kind of lubricating oil as is used in the cylinder; screw up the glands lightly at first.

ASBESTOS WICK PACKING.

This article is composed of the purest and finest Asbestos Fibre, in form of a soft, strong "lamp wick," which can be wound or packed in any desired shape around small steam and other valve stems, pumps, etc., and owing to its being strictly acid and fire proof, is valuable for use in chemical works, etc.


It is manufactured in one-pound balls.

ASBESTOS MILL-BOARD, OR FLAT PACKING.

Our ASBESTOS MILL-BOARD is manufactured from strictly PURE ASBESTOS of the finest quality and strongest fibre:

It is made in flexible sheets, 40 inches square and from one-thirty-second to one-quarter of an inch thick, weighing from $1\frac{1}{2}$ to 12 lbs. It is strictly fire and acid proof, and forms the most durable FLAT PACKING, or Gaskets, in use, for flange joints, cylinder heads, man-hole plates of steam boilers, oil stills, hot-air joints, steam pumps, etc.; also for covering Locomotive Boilers, Caloric Engines, etc., and as a protection for all surfaces against the action of fire.

The Asbestos Board will adapt itself to uneven surfaces, and will wear *ten times as long* as any other Flat Packing. It is unaffected by long exposure to heat, and forms a perfectly and permanently tight joint, capable of being removed and replaced without injury.

 Ours is the only ASBESTOS MILL-BOARD made exclusively of PURE ASBESTOS, and is the only article of the kind which is strictly fire and acid proof.

ASBESTOS GASKETS.

All sizes not exceeding 40 inches outside diameter, from one-thirty-second to one-quarter of an inch thick, cut to order from our Asbestos Board—weight less than one-half as much as India Rubber Gaskets.

ASBESTOS PREPARED FIBRE.

This article consists of finely separated and carded long fibres of pure Asbestos, entirely free from Silica, which can be packed into any desired form for journal-boxes, expansion joints, etc. It is fire and acid proof. In packages of one pound and upwards. We also make EXTRA FINE CARDED FIBRE for special purposes.

ASBESTOS PAPER.

This is a strong white fire-proof paper, composed of pure Asbestos, and is supplied in sheets about 10 x 15 inches.

ASBESTOS RETORT CEMENT.

FOR CEMENTING JOINTS IN STONE, WOOD, METALS, Etc., Etc.

THIS Cement is fire and acid proof, and is offered as the strongest and most durable article ever produced for the above purposes. It is composed of ASBESTOS FIBRE, combined with other fire-proof material and cementing matter which has a peculiar affinity for ASBESTOS, and when subjected to intense heat will vitrify without shrinking, thus rendering it of great value in repairing broken FIRE CLAY AND OTHER RETORTS, PIPES, &c., which can by its use be made as strong and perfect as when new.

It is superior to any other cement for filling crevices, and for cementing fittings, taps, connecting pipes, mouth-pieces, flange joints, fire doors, and for coating new clay or iron retorts, inside of pipes, and is especially valuable for use around nitric and sulphuric acids, petroleum oils, etc., as it effectually prevents the escape of vapors.

It is supplied in casks of 400 to 500 lbs., 100 lb. kegs, and 10 lb. pails.

INSTRUCTIONS FOR USE.

This cement is supplied ready for use, of the consistency of mortar, and may be thinned with warm water. It can be easily applied with a trowel, and hardens rapidly.

ASBESTOS CONCRETE COATING.

This article is composed of Asbestos and other fire-proof ingredients, prepared ready for use in the form of a *Thin Coating* to be applied with a brush, and a *Thick Coating* to be applied with a trowel, and forms a covering resembling stone, upon beams, posts and other rough wood work, which is invaluable in boiler-rooms, basements and lofts of warehouses, factories, etc., as a protection against fire.

It is not claimed that surfaces thus protected cannot be destroyed by fire, but it will greatly retard the action of flames and will withstand intense heat.

It is supplied in barrels and kegs of all sizes, and can be easily applied.

100 lbs. *Thin Coating* will cover 300 sq. ft. two coats. 100 lbs. *Thick Coating* will cover 150 sq. ft. one-sixteenth of an inch thick.

INSTRUCTIONS FOR USE.

As this coating hardens very rapidly, it will be necessary to dip the brush occasionally in warm water; and, after using, wash out the brush and keep in water. If the contents of the package are not all used, cover with a damp cloth, to exclude the air.

It can be applied to all surfaces (rough wood work is preferable), excepting over fresh oil paint.

ASBESTOS CLOTH AND THREAD.

These articles are made only to order. Full particulars in regard to cost, etc., will be furnished on application.

HAIR FELT.

We would call particular attention to the superior quality of our Hair Felt, which is made from pure Russia Hair, steam pressed. It contains no waste or flock, and is the cleanest, strongest and most durable Hair Felt in use, for protecting steam and water pipes, and other surfaces, against freezing and loss of heat; and for sheathing ice-houses, deadening floors, etc.

IN conclusion, while we claim to make only the best articles for the purposes herein described, and spare no pains or expense to attain the highest degree of excellence in all, we do not claim to be infallible; and, in case of any irregularity or imperfection in any of our goods, we shall consider it a favor to be informed of it at once *by the buyer or user*, in order that we may have the opportunity of correcting the same.

During the past twenty-four years we have received thousands of testimonials and letters commending our manufactures, and append copies of a few, which, coming from well-known and authentic sources, will be sufficient proof of their superiority; and as they are in use in all parts of the country, we can refer those interested to parties in their vicinity who can speak from experience as to their value and desirability.

TESTIMONIALS.

RELATING TO PAINTS.

The United States Capitol at Washington is painted exclusively with H. W. JOHNS' ASBESTOS LIQUID WHITE, as follows:

The stone work of the main or original building to correspond with the new wings, the Dome and other outside iron work, and the inside wood and iron work.

ARCHITECT'S OFFICE, U. S. CAPITOL, WASHINGTON, D. C., Jan. 6, 1879.

Dear Sir: You are at liberty to refer to me as using your Paint at the Capitol.

Yours respectfully, EDWARD CLARK, Architect, U. S. Capitol.

WORCESTER, MASS., January 9, 1880.

* * * * *

Dear Sirs: We consider H. W. Johns' Mfg Co.'s goods strictly first-class, and not equaled by any others in the market. As compared with other Liquid Paints, it is sufficient for us to state that we have displaced them all in favor of the former.

Truly yours,

JEROME MARBLE & CO.

ADAMS, MASS., May 9, 1879.

H. W. JOHNS MFG Co., 87 Maiden Lane, New York.

Dear Sirs: We have sold and used H. W. Johns' Liquid Paints for three years, and they have given perfect satisfaction to all who have used them. Among others, L. L. Brown Paper Co., Bentzen Mfg Co., Arnold Print Works, Freeman Mfg Co. We think they are the best Paints in use.

Yours truly,

F. E. MOLE & CO.

MASS., C. W. TRAUBER & Co., Boston.

NORWOOD, MASS., May 3, 1879.

Gentlemen: With reference to Johns' Patent Asbestos Liquid Paints, which we have used in large quantities during the past four years, will say they have always given us entire satisfaction, and we can give them the highest recommendation. Yours truly,

E. E. PRATT, Master Car Builder, N. Y. & N. E. R. R.

LEWISTON, N. Y., January 29, 1881.

Dear Sirs: We received your letter yesterday. Mr. — was in to-day, but he will want to paint until next summer, when he will use your goods. Your Paint has given great satisfaction wherever used, and we shall sell considerable the coming season.

Yours truly,

DENSMORE BROS.

OFFICE OF AMERICAN AGRICULTURIST, NEW YORK, *July 22, 1878.*

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

Dear Sirs: I have used your Paint upon outside work of my house, and can already see that the work done with it is superior to that done with the Lead and Oil Paint. I am much pleased with the Paint, and wish now to try the pure white for inside work, etc.

Yours truly,

HENRY STEWART.

AUBURN, N. Y., *March 1, 1878.*

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

Dear Sirs: In answer to your inquiry as to how we like your Paint, we are more than entirely satisfied with it. As you are aware, we are large users of paint, and of all that we have ever used are satisfied yours is far superior; it is put on with less labor, covers better, flows more easily, has a better body, and, as far as our experience goes, will stand the weather better than any other paint we know of. Your roof paint is unsurpassed. We used one coat on a tin roof, and to-day it looks as fresh and the color is as bright as when first applied.

Respectfully yours, JOSIAH BARBER & SONS,

*Manufacturers of Woolen Goods and Carpelings.*ENGLEWOOD, N. J., *January 29, 1881.*

H. W. JOHNS M'F'G Co., New York.

Dear Sirs: After two years' test of your Asbestos Liquid Paint on my hotel, the Palisades Mountain House, I am pleased to say I consider it superior in every respect to any other I have ever used—not excepting the best white lead. Although only one coat of your Paint was used, it looks as fresh and perfect to-day as if it had been applied within a month. As you are aware, I am a large user of paints, and in future shall use no others.

Yours truly,

WILLIAM B. DANA.

PALISADES MOUNTAIN HOUSE, ENGLEWOOD, N. J., *June 30, 1879.*

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

Dear Sirs: Our hotel, painted inside and out with your Asbestos Liquid Paints, presents a very beautiful appearance, which is remarked by all our guests. The Paints have proven entirely satisfactory in every respect, and you are at liberty to refer to me at any time.

Yours truly,

D. HAMMOND, *Proprietor.*ALBANY GAS LIGHT Co., ALBANY, N. Y., *June 10, 1880.*

H. W. JOHNS M'F'G Co.

Dear Sirs: Please ship by People's Line one barrel Shade 46 and ten gallons Shade 34. What we used on purifying houses gives good satisfaction.

Yours truly,

ISAAC BATTIN, *Supt.*

OFFICE OF THE WEST CHESTER GAS Co., }

WEST CHESTER, PA., *May 1, 1878* }

Dear Sir: The Brown Roof Paint which I have been using to paint wood and iron in and about these gas works has given entire satisfaction. I regard it as the best Paint to resist the action of gas. It keeps its color, works easily, and is economical.

Yours truly,

L. G. McCAULEY, *Supt.*HYGEIA HOTEL, OLD POINT COMFORT, VA., *August 3, 1880.*

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

Dear Sirs: I desire to express most heartily my entire satisfaction with your Paints, which I have been using a number of years. I now have over thirteen acres of wood work covered with your paints. They have successfully withstood the effects of salt air, and I consider them in every way satisfactory and take pleasure in recommending them.

Most respectfully,

H. PHOEBUS, *Proprietor.*

BURLINGTON WOOLEN Co., }

WINDSOOKI, VT., *October 13, 1880.* }

H. W. JOHNS M'F'G Co.

Gentlemen: Having used your prepared Paint for several years, and more extensively for the past few months, I can assure you that, so far as my experience extends, I do not know of any Paint that equals it in facility of spreading, density or durability. Having tried several kinds of Prepared Paints, as well as Lead and Oil, I make the above statement understandingly.

Yours respectfully,

F. C. KENNEDY, *Agent.*

EAGLE COTTON MILLS Co., }

PITTSBURGH, PA., *September 11, 1880.* }

H. W. JOHNS M'F'G Co.

Dear Sirs: Several years ago we purchased some Paint from you, which gave good satisfaction. Please quote your present prices for Paint for mill use. We want it for outside and inside work.

Yours truly,

O. M. HARPEP, *President.*

HOLYOKE, MASS., *February 10, 1879.*

Dear Sirs: I have painted all the bridges over the three canal levels with your Asbestos Paint, giving the city authorities the greatest satisfaction. The covering property of these Paints is far beyond that of any paint I am acquainted with, two coats making a perfect covering on new work. The Paints do not scale, blister, or chalk, but wear well, retaining their firmness and color.

Yours truly, G. W. BURDITT.

FULTON, N. Y., *April 5, 1880.*

Dear Sirs: Enclosed find check to balance account. I shall use your Paint more extensively this year than last, as every one who has had it put on likes it better than Lead and Oil. I have finished painting my own house with your Paint, which I would not have done did I not consider it better than lead.

Yours truly, MARCUS F. GRAHAN, House Painter.

BALTIMORE, *January 12, 1880.*

H. W. JOHNS M'F'G Co.

Gentlemen: We have used considerable quantities of your Paint on our telegraph poles, trestles and other fixtures with very favorable results, and shall continue to use it if we are as well served as heretofore. Yours respectfully, DAVIS & WATTS,

Agents Bell Telephone.

WASHINGTON, D. C., *Sept. 10, 1880.*

Dear Sirs: My painters speak in unqualified terms of the working of your Paint. It shows splendidly

Yours, &c.,

R. S. LACEY,

Editor Scientific Record.

FRIARS POINT, MISS., *June 6, 1879.*

Dear Sir: Three or four years ago I purchased a barrel of your Asbestos Paint, with which I covered a store-house. The result has been satisfactory. I am now building a house more than ordinarily costly for this locality, and would like you to ship me one barrel (40 or 50 gallons) as per shipping directions enclosed.

Yours, etc.,

J. L. ALCORN,

(United States Senator).

WACO, TEXAS, *Sept. 20, 1879.*

H. W. JOHNS M'F'G Co.

Gentlemen: We have painted several residences and other buildings with your "Asbestos" Liquid Paint, and will say it seems to suit our climate; and, as to its economy, we regard it as really the cheapest of any we have used, and we have used other brands of Liquid or Mixed Paints, besides the best Lead and Zinc.

Yours truly,

PORTER & SHEARS.

OLD ORCHARD HOUSE, ME., *June 18, 1880.*

To the H. W. JOHNS M'F'G Co., 87 Maiden Lane, N. Y.

The old Orchard House having just been completed with two coats of Johns' Asbestos Paints in a manner perfectly satisfactory to me, I would endorse them as being not only of the most wonderful covering capacity, but also on the point of economy and manner of working under the brush. * * * Although two coats were called for under the contract, yet under the large piazza I found one coat was entirely sufficient.

(Signed)

E. C. STAPLES, *Proprietor.*

NEW ORLEANS, *January 19, 1878.*

Gentlemen: I used your Asbestos Paints on my steamer La Belle—on the cabin, in and outside, also on the floors and hull—and am well pleased with it as a lasting and also a beautiful white. It lasts much better than any paint I have ever used, and in future I shall not use any other when I can get it. I also find it at least one-third cheaper in cost than the usual white lead and oil paints.

Yours respectfully, M. W. WOOD.

Through a number of years the H. W. Johns M'F'G Co. have established an enviable reputation for making liquid paints that are remarkable for their durability and beauty. Their Asbestos Liquid Paints have real merit, and all who contemplate painting their farm and other buildings should bear this in mind. We can gladly refer the reader to our recommendations of this firm and its paints in the past.—*American Agriculturist*, November, 1880.

OFFICE OF THE UNION RAILROAD CO.,

PROVIDENCE, R. I. }

Our roof is painted with your Asbestos Roof Paint. Excellent body—rich color—easy to work.

UNION RAILROAD CO.

DEAVERTOWN, OHIO, *February 8, 1878.*

MESSRS. S. W. HEMPSTEAD & Co., Columbus, Ohio.

Dear Sirs: Your favor of January 29th, requesting my opinion of "H. W. Johns' Asbestos Paints," is at hand.

In reply, I would say that I have, after considerable experience, found them just what

they are represented, and believe them to be not only equal, but superior to any Paints in the market. For beauty of finish, lustre and durability, and other good qualities, they are, in my opinion, unequalled.

While I was painting, my supply ran short, and I got a keg of — best brand of pure White Lead, which was applied, allowing an extra coat (the third), but the difference was so marked that I had to have it repainted with the Asbestos White, as it lacked the purity and peculiar lustre of yours.

I shall continue to order of you when in need of Paint.

Very truly yours,

J. R. BELL, M.D.

The contract for supplying Paints for the Metropolitan Elevated Railroad of New York City was awarded to us. This is the largest contract ever made for painting any single structure in this country.

Our Asbestos Roof Paint was used with entire success, when all others failed, upon the roof of the Exhibition Buildings at Philadelphia, the largest area of Tin Roofing in the world.

Our Asbestos Fire-proof Paint has been applied to nearly five acres of wood work in the two immense Dry Goods Stores of Messrs. A. T. Stewart & Co., of New York City.

435 East Houston Street,

H. W. JOHNS M'FG Co.

NEW YORK, April 12, 1881.

Gentlemen: * * * We can recommend your paint to any one as being first class, as the exterior of the Oriental Hotel, Manhattan Beach, will show, having stood the storms of last winter, and looking as well to-day as the day we finished it.

Yours truly, G. C. LUGAR, House and Ornamental Painter.

MESSRS. CHAS. W. TRAINER & CO.,

HINGHAM, April 2, 1881.

Nos. 148 & 150 Oliver Street, Boston, Mass.

Gentlemen: Two years since we applied to the roof of the Hotel Nantasket two coats of Johns' Red Asbestos Roof Paint. Upon examination at this time I find it in splendid condition, and seemingly as good as when first applied.

It has an excellent body, and holds its color well. I have no hesitation in stating that your paint is the best for the purpose that I have ever seen, and will cheerfully recommend it to all interested.

It may be well to add that a severer test could not be given your paint than on the roof of our hotel, exposed as it is on the sea coast to the most trying weather.

Yours respectfully,

WILLIAM J. NELSON,

Superintendent Nantasket Company.

U. S. Naval Hospital,

WASHINGTON, D. C., Sept. 3, 1878.

Dear Sir: The Paint you furnished us has accomplished a great deal of work in painting the walls of this building inside, and I shall recommend it for future use when the work can be continued. * * * Respectfully yours,

F. M. GUNNELL,
Medical Director.

PORTSMOUTH, N. H., December 9, 1880.

Gentlemen: Enclosed find check for settlement of our account in full. We here desire to express our entire satisfaction with all the goods received from your house, they being in every particular up to the standard, both as to *your claims* and *our requirements*.

Respectfully yours,

W. J. SAMPSON & CO.,

House, Ship and Ornamental Painters.

OFFICE OF ALLEN WOOLEN MILLS,

HANOVER P. O., Conn., November 28, 1877.

Dear Sirs: I have now been using your Asbestos Roofing and Roof Paint for eight years. The roofing is good, and the Paint answers a good purpose on tin roofs. I always keep it on hand, and apply it in warm weather, but find I have roofs which should be repainted at once, so you may send me one barrel Roof Paint and fifty pounds Cement by Norwich Boat.

Yours truly,

ETHAN ALLEN.

SAXONVILLE, MASS., June 30, 1881.

MESSRS. C. W. TRAINER & CO., Boston.

Gentlemen: I shall paint later and then order all together.

After five years' trial here and previous use elsewhere, with some knowledge of the trade, I consider H. W. Johns' Liquid Asbestos Paints immeasurably superior to lead and oil, and would use no other Paint by preference.

Yours very truly,

H. A. BROWN.

RELATING TO ROOFING.

H. W. JOHNS, 87 Maiden Lane, New York.

OSWEGO STARCH FACTORY,

OSWEGO, N. Y., Oct. 28, 1878. }

Dear Sir : We have several acres of your Asbestos Roofing on our buildings ; the first roof, put on fifteen years ago, is in good condition, and we prefer it to any other.

Yours respectfully, T. KINGSFORD & SON.

OFFICE BIGELOW BLUE STONE COMPANY,

247 BROADWAY, NEW YORK, April 8, 1880. }

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

Gents : Owing to the fire which occurred on the morning of February 1st at the works of our blue stone and planing mills, situated at Malden, on the Hudson, we shall shortly require more of your roofing material. That portion of the building covered with shingles was entirely consumed, but we take pleasure in stating that when the flames reached the part covered with your Asbestos Roofing the edges fell over that part of the roof and prevented further progress of the flames. The building would have been a total loss had it not been for your roofing.

You are at liberty to make any use you choose of this letter, and refer any one to us as to the merits of the Asbestos Roofing. Respectfully yours, JOHN MAXWELL, *Lessee*.

OFFICE OF THE HALDEMAN PAPER COMPANY, }

LOCKLAND, O, April 30, 1880. }

H. W. JOHNS M'F'G Co., New York.

Gentlemen : In the year 1875 we built a warehouse, 30 x 100, which we covered with your Asbestos Roofing. We have coated it with your Roof Coating once since it was first applied, and to all appearances it is as good to-day as when first put on. We were so much pleased with this warehouse roof that when we built a new mill in 1877 we covered it with your Asbestos Roofing. This mill roof has been much admired by all who have seen it and taken the trouble to examine it. It has stood the test of the extremes of weather—two summers' heat and two winters' cold—and resisted all the storms to which it has been exposed. To-day it is in prime condition, and with ordinary care we see no reason why it should not continue to be a good roof for twenty years.

Yours very truly, J. C. RICHARDSON, *Pres.*

OFFICE OF AULTMAN & TAYLOR M'F'G Co., }

MANSFIELD, OHIO, Feb. 22, 1875. }

Dear Sir : We have had your Roofing in use for some four years, and the fact that we have recently bought several thousand dollars' worth of it shows that it has given us entire satisfaction.

Yours truly, M. D. HARTER, *Treas.*

(FOUR YEARS LATER) JUNE 23, 1879.

Dear Sir : We have used a great deal of H. W. Johns' Asbestos Roofing. We like it very well, and are using it constantly on our new buildings. Have used about twelve hundred (\$1,200) dollars' worth of it recently. Yours truly, M. D. HARTER, *Treas.*

MR. H. W. JOHNS.

OFFICE OF PASSAIC ZINC CO., }

113 LIBERTY ST., NEW YORK, April 5, 1875. }

Dear Sir : We have had your Asbestos Roofing in use at our Zinc Works some four or five years, and prefer it to either tin, slate, or any other kind of covering for roofs.

Yours respectfully, MANNING & SQUIER, *Agts.*

SOUTH BEND IRON WORKS, }

Proprietors of OLIVER CHILLED PLOW WORKS, }

SOUTH BEND, IND., Dec. 12, 1881. }

H. W. JOHNS M'F'G Co.

Gentlemen : Replying to your favor of the 9th inst., our experience with the Asbestos Roofing is very satisfactory. We have used nothing else for the past two years, and design continuing its use on the new buildings to be erected by us the coming spring. The economy and durability of your Roofing is beyond question, and we are glad to be able to give it our endorsement. Yours truly,

SOUTH BEND IRON WORKS.

GEORGIA CHEMICAL WORKS. }

AUGUSTA, Ga., Nov. 9, 1881. }

H. W. JOHNS M'F'G Co.

Dear Sirs : We have used your Asbestos Roofing on our buildings for six years, and find it to-day apparently good for as many years more. On the roof of our Burner Room the Roofing has been constantly subjected to the fumes of burning sulphur. Tin subjected to the same usage became worthless in less than a month.

Yours truly, C. B. F. LONE, *Supt. and Chemist.*

Messrs. DOWNIE, TRAINER & Co., Boston.

EASTON MALLEABLE IRON WORKS. }

EASTON, MASS., Feb. 13, 1875. }

Dear Sirs : It is now about four years since I first had H. W. Johns' Patent Asbestos Roofing applied to my annealing furnace building. I have ordered it from time to time for other buildings. It has in all cases proved highly satisfactory, and has stood the test of heat and cold so well that I think it better and more easily applied than any that I have ever seen.

Very respectfully,

DANIEL BELCHER.

COLUMBUS, O., Feb. 4, 1878.

Dear Sirs : Since adopting the Asbestos Roofing we have been adding to our roof-area, until now we have in use something like 130 squares (13,000 feet). Some of our roofs are very flat, and have been used to work upon—one, in particular, covered with this Roofing, is a regular thoroughfare, subjected to continual walking over, without sign of injury. In short, we consider it as possessing advantages over other materials used for similar purposes.

Yours truly,

PETERS DASH CO.

OFFICE TROY (N. Y.) FIRE BRICK WORKS, }

June 1, 1880. }

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

Gentlemen : We are in want of a quantity of roofing for some new buildings. * * * It gives us pleasure to say the Asbestos Roofing gives better results than any we have used.

Yours truly,

JAMES OSTRANDER & SON.

APARTADO 373, HAVANA, CUBA, Oct. 29, 1879.

Gentlemen : I am happy to say that your Asbestos Roofing has proved, up to the present time, quite a success, having perfectly stood the high temperature and heavy rains of this climate.

Your obedient servant,

MARQUIS DE MONTELO.

H. W. JOHNS M'F'G Co., 87 Maiden Lane, New York.

GEM CITY TOBACCO WORKS, }

QUINCY, ILL., May 21, 1880. }

Dear Sir : Please give us lowest figures on Asbestos Roofing. We bought several years ago 200 squares. * * * We are talking up your roofing wherever we have a chance.

M. GOODMAN, Secretary.

PUERTO PLATA, SAN DOMINGO, July 1, 1880.

H. W. JOHNS M'F'G Co., 87 Maiden Lane, N. Y. :

I have ordered to-day through Messrs. R. H. Allen & Co. a lot of Roofing. Your Asbestos Roofing, which I have sold during the past three years, has given good satisfaction.

Yours truly,

W. O. BARTLETT.

GULLETT COTTON GIN MANUFACTURING COMPANY, }

AMITE CITY, LA. }

Dear Sirs : In response to your inquiry regarding the Asbestos Roofing, it affords me pleasure to state that as far as I have tried it I find nothing more satisfactory. It makes a perfectly tight roof, and is more economical than the shingle roof. During the fire here on the 11th of October last, by which our store and offices, covered with the common pine shingles, were destroyed, I am convinced that our being enabled to save the factory is entirely attributable to our having it covered with your Asbestos Roofing, the factory being distant not more than forty feet from the store. We have at present on various buildings 132 squares of the Asbestos.

Very respectfully,

B. D. GULLETT, President.

ROCK CITY FALLS, N. Y., May 6, 1879.

Dear Sirs : We have just had a fire and feel pleased with your Fire-Proof Covering (Roofing). Please send at once — squares Roofing, and oblige

Yours truly,

C. KILMER & SON.

PITTSBURGH, PA., Nov. 4, 1880.

Dear Sir : The Roofing put on at Rochester five (5) years ago is good yet, though nothing has been done to it since it was applied.

Yours respectfully,

W. R. BOGGS & CO.

H. W. JOHNS M'F'G Co.

KOKOMO, IND., January 21, 1880.

Dear Sirs : The Roofing applied by me five years ago has stood the test of time, and is now in perfectly good condition. Please give me your present prices, and I will send an order by return mail.

Yours truly,

WILLIAM MOORE.

H. W. JOHNS, Esq.

GREENBUSH, N. Y., March 27, 1877.

Dear Sir : I have some roofing to do this spring, and would like your price-list. I put on some of your Roofing six years ago, and it has not leaked a drop as yet.

Yours truly,

ALBERT N. MORY.

MESSRS. C. A. PARKER & Co.

NEW ORLEANS, January 19, 1878.

Dear Sirs: I own the steamer *Bastrop*, on which I had the Asbestos Roofing applied over twenty months ago. It has already lasted three times as long as any other Roofing I ever tried, without any repairs, and is now in perfect order, having been the cheapest Roofing I ever used.

Yours truly,

GUS. HODGES,

Master Steamer *Bastrop*.

H. W. JOHNS, Esq.

AKRON, OHIO, Feb. 29, 1876.

Dear Sir: After three years' experience with your Roofing, we can honestly testify that we believe it to be superior to any other Roofing in use, not excepting tin or any other metal roof. In our city and vicinity, as it becomes better known, it is coming into general favor. Last season it was applied on some very large roofs for parties who do not experiment with anything new of this kind, among whom were our County Agricultural Society, Aultman, Miller & Co., Akron Gas Company, etc., etc., and it has in every instance given complete satisfaction.

Yours respectfully,

MILLER, THOMAS & CO.

OSWEGO MALT HOUSE, }

OSWEGO, N. Y., Feb. 25, 1880. }

Dear Sir: Yours of the 23d received. In 1876 I replaced an iron roof with one of Asbestos on my large malt house, and the latter has given unbounded satisfaction. The factory next to me burned to the ground about two years ago, and had it not been for my Asbestos roof I should certainly have lost my malt house. My roof was covered with burning brands for hours, and never so much as caused a leak.

Very truly yours,

CHAS. W. PARDEE.

MAYPORT, FLA., Aug. 23, 1880.

Dear Sir: I have been using your Roofing materials for some years, and am well satisfied with them. In our salt air I consider your Roofing more durable than tin

Yours truly,

W. F. KEELER.

LANCASTER, O., Jan. 7, 1881.

Dear Sir: We regret to inform you our factory was totally destroyed by fire this A. M. The Roofing on outside buildings proved satisfactory, and we shall want more when we rebuild.

Yours,

NEIL, TIPPETT & KILLIAN.

H. W. JOHNS M'F'G Co.

HOBOKEN FERRY COMPANY, }

HOBOKEN, N. J., Dec. 3, 1881. }

Gentlemen: On November 6th, 1881, the Eagle Docks in this City were burned, and our buildings placed in great danger. Sparks and embers fell in large quantities on your Asbestos Roofing (with which our Coal Shed and Ferry Houses are covered); without injury to the roofs, thus fully sustaining your claim that they are practically Fire-proof. No repairs to the roofs have been made necessary by the fire.

Yours truly,

J. J. CHASE, Supt.

SINGER M'F'G Co., }

SOUTH BEND, IND., Dec. 10, 1881. }

Dear Sir: We reply to your favor of the 8th inst., that we have had your Asbestos Roofing on our "dry kilns" for over two years, subjected to all changes of weather and seasons, and to the great heat and acid vapors from the interior of the kilns, and it seems to be as good now as when first put on. Every other Roofing we have tried on these kilns lasted but a few months, and tin roofs became eaten through in less than six months.

Yours very truly,

THE SINGER M'F'G CO.,

L. PINE, Supt.

NORWICH, CONN., August 12, 1876.

I covered a boiler-house four years ago with the Asbestos Roofing for the Norwich Bleaching and Calendering Co., and it is tip-top to-day. Send me 1,800 feet this week, as I would like to use it Monday, for the same company.

Yours truly,

NATHAN SMALL.

H. W. JOHNS' M'F'G Co.

MARSHALLTOWN GAS LIGHT Co., }

MARSHALLTOWN, Iowa, Feb. 8, 1882. }

87 Maiden Lane, New York.

Dear Sirs: * * * * * We have your Asbestos Roofing in use, and it is just the thing for Gas Houses.

Yours respectfully,

R. W. CARPENTER, Supt.

RELATING TO BOILER COVERINGS, Etc.

NAVAL CONSTRUCTOR'S OFFICE,
NAVY YARD, NEW YORK, Dec. 9, 1880.

Sir: I would respectfully report that the two boilers located in the smithery have been covered with H. W. Johns Manufacturing Co.'s Asbestos Non-conducting Covering — the work has been done thoroughly and satisfactorily. Since completion of the work there has been a saving in the consumption of coal of about *thirty per cent.*

Very respectfully, your obedient servant,
To Commodore GEO. H. COOPER, U. S. N.,
Commandant Navy Yard, New York

GEO. R. BOUSH,
Naval Constructor.

OFFICE CITY WATER WORKS,
CINCINNATI, April 16, 1880

I take pleasure in stating that of all the coverings now in use at City Water Works, embracing 15,000 square feet of various kinds, the H. W. Johns Asbestos Air Chamber Covering is by far the best, not only in efficiency, but also in durability and lightness.

THOM. H. RYON, Assistant Engineer in Charge.

CIVIL ENGINEER'S OFFICE,
NAVY YARD, NEW YORK, Jan. 26, 1876.

Mr. H. W. JOHNS.

Dear Sir: Your Asbestos Cement Felting possesses all the qualities you claim for it.
Respectfully, &c,

NORMAN STRATTON, Civil Engineer.

ARNOLD PRINT WORKS,
NORTH ADAMS, MASS., Jan. 18, 1878.

Dear Sirs: We are well pleased with the Double Air Chamber Felting put on for us by your Company. Before we decided to use your Covering, we gave the matter considerable attention, and satisfied ourselves that it was the best covering for steam pipes in the market, and can say it is far superior to the covering of ——— Co., having used both. We are

Respectfully yours,
A. C. HOUGHTON, Treas.

OFFICE OF H. K. & F. B. THURBER & CO.,
West Broadway, Reade and Hudson Streets,
NEW YORK, March 15, 1882.

H. W. JOHNS M'F'G Co.

Dear Sirs: After an experience of over five months with your Pure Asbestos Packing, in use as a Piston Packing, I am free to say I am agreeably surprised at the result, for after being in constant use that length of time, it shows little or no signs of wear, holds steam and water perfectly, does not "blow out" and I find requires less oil than any other Packing I have ever used. I shall continue to use it in all the engines under my charge.

Yours truly, CHAS. D. DOUBLEDAY, Chief Engineer.

WATER REGISTRAR'S OFFICE,
WASHINGTON, July 22, 1881.

H. W. JOHNS' M'F'G Co.

Dear Sirs: The coverings you applied to the pipes at our works, consisting of "Asbestos Cement," and your Asbestos Lining Felt, hair, paper and canvas, gives entire satisfaction, and I prefer it to any covering I have seen.

Yours truly, HENRY LAMSON, Supt.

BEADLESTON & WOERZ,
EMPIRE BREWERY, NEW YORK, March 2, 1882.

H. W. JOHNS M'F'G Co.

Dear Sirs: Have used your improved Pure Asbestos Packing, in piston rod and valve stems for the past five months. I confidently recommend it to engineers as superior to any other. It wears well, requires little oil, and gives me no trouble.

Yours truly, JOHN K. S. STOUT, Engineer.

NATIONAL MUSEUM,
WASHINGTON, D. C., July 12, 1881.

H. W. JOHNS M'F'G Co.

Dear Sirs: The Covering you applied to the steam pipes, i. e., your Air Chamber Covering, finished with your Fire-Proof Paint, has given perfect satisfaction in every respect, and I consider it superior to any other covering now in use. Since it was put on I have had occasion to remove some, and it has been replaced without loss of material.

Yours truly, A. A. DUBY, Chief Engineer.

SAVANNAH COTTON PRESS ASSOCIATION,
SAVANNAH, GA., November 10, 1881.

H. W. JOHNS' M'F'G Co.

Dear Sirs: This Association has four batteries of boilers and their pipe connections covered with your Asbestos Cement Felting. I am fully satisfied we save at least fifteen per cent. in fuel over the old method of covering with brick work.

Yours respectfully, SAM'L J. WHITESIDES,
Chief Engineer.

ROOSEVELT HOSPITAL, 59TH STREET AND 9TH AVE., }
NEW YORK, *March 16, 1877.*

I take great pleasure in recommending your Asbestos Felting to all who have occasion to use it as a very superior article.

Truly yours,
THOMAS F. REILLY,
Engineer Roosevelt Hospital.

Referring to our Air Chamber Covering applied to his boiler in Sacramento, Cal., the eminent practical engineer, Mr. J. C. Hoadley, writes, September 24, 1877:

"It is no small consideration that the comfort of working about the boiler and engine is greatly enhanced by clothing the boiler. I think this form of covering about right for covering portable engine boilers, and I know of no other way at once so economical and efficient."

Yours truly,
J. C. HOADLEY."

H. W. JOHNS M'FG CO.

PATAPSCO OIL REFINERY, }
BALTIMORE, MD., *Oct. 27, 1877.*

Dear Sirs: Above find order for Asbestos Cement Felting. We can cheerfully recommend the Felting as an effective preventive of radiation of heat, and of very great advantage, applied to Oil Stills, as a saver of fuel as well as of fire-sheets.

Yours truly,
CHRISTOPHER & CO.

CENTRAL PACIFIC RAILROAD COMPANY,
California, Pacific Railroad and Stockton and Copperopolis R. R. }
Office of the General Master Mechanic.

SACRAMENTO, CAL., *Aug. 6, 1877.*

Gentlemen: Regarding H. W. Johns' Asbestos Cement Felting, will say we have it in use on several of our Steamboats and Stationary Boilers. It is giving entire satisfaction in every instance, and I have no hesitation in saying it is equal to anything we have ever used for the purpose.

Yours truly,
A. J. STEVENS, G. M. M., C. P. R. R.

BEADLESTON & WOERZ, EMPIRE BREWERY, }
291 WEST 10TH ST., NEW YORK, *Aug. 31, 1880.*

H. W. JOHNS M'FG CO., New York.

Gentlemen: Having used your Asbestos Cement Felting on boilers, Asbestos Single and Double Air Chamber Coverings on steam pipes, heaters and tanks, and your Special Covering for cold water tanks and pipes, I take pleasure in saying that all of them are superior to any other coverings I have ever seen, and even better than stated by you.

JOHN K. S. STOUT, *Engineer.*

ALTA MINE, GOLD HILL, NEV., *Jan. 4, 1879.*

Dear Sir: I have applied H. W. Johns' Asbestos Double Air Chamber Covering to our pipes, and it gives perfect satisfaction. I consider it the very best covering introduced on the "Comstock," and I can apply it at less than half the cost of Cement, or any other material.

Yours truly,
M. C. FOOTE, *Chief Engineer.*

OPHIR MINING CO., VIRGINIA, NEV., *Jan. 6, 1879.*

Having used these goods, I fully concur in Mr. Foote's opinion.

JAMES BROWN, *Chief Engineer.*

POTOMAC STEAMBOAT CO., WASHINGTON, D. C., *Oct. 11, 1880.*

Dear Sirs: The Asbestos Cement Felting applied by you to the boilers of the steamer *George Leary* in June last has given entire satisfaction, and caused a large saving in fuel. We are so much pleased with it that we have directed that the boilers of the *Excelsior* should be covered with the same covering.

Yours truly,
JOSEPH WHITE, *Capt. and Supt. P. S. Co.*

JAMES O. DONNELL, *Chief Engineer.*

L. L. BROWN PAPER CO., ADAMS, MASS., *Nov. 3, 1879.*

Dear Sir: We have used the H. W. Johns Asbestos Boiler Covering, and find it a perfect thing, and willingly add our endorsement to all that is claimed for it.

Yours truly,
T. A. MOLE, *Treas.*

MERCHANTS' INSURANCE CO., NEW YORK, *Jan. 3, 1879.*

Dear Sir: With our new Cory's Excelsior Furnace, and the tin pipes covered with your Felt Covering, we have laughed at cold weather, though the thermometer was below zero to day. The Covering is a complete success, as by its use heat can travel.

Yours truly,
J. L. DOUGLASS.

OFFICE LOWELL FELTING MILLS, 55 CONGRESS ST., BOSTON, *Dec. 26, 1876.*

* * * * * Your business should increase, for the reason that your method of jacketing pipes is superior to all others that I have seen.

Yours truly,
W. H. THOMPSON, *Proprietor.*

FISK UNIVERSITY, NASHVILLE, TENN., Nov. 6, 1876.
The goods were received about a week or ten days ago, and we have applied the Felt to our steam pipes with excellent results, accomplishing all we desired.

Truly yours,

E. P. GILBERT, *Ass't Treasurer.*

Mr. H. W. JOHNS.

NEW YORK, March 14, 1877.

Sir: The Asbestos Cement Felting and your Double Air Chamber Covering (with Asbestos Lining Felt), give perfect satisfaction in finish, use and economy of fuel. I consider them superior, as non-conductors and non-radiators of heat, to any covering I have ever seen.

Respectfully,

PETER BROWER, *Engineer for Carter, Hawley & Co., 140 Pearl St.*

Extract from Report of W. B. Sheppard, Superintendent Utah Mine, Virginia City, Nevada, March 8th, 1879, to Geo. C. Pratt, Secretary.

"We find that we have saved about fifty (50) cords of wood the past month by having our drums and pipes covered (H. W. JOHNS' COVERING) at a cost of \$700. Saving fifty cords at \$11.50—\$575.

WEST BROADWAY, READE AND HUDSON STS., NEW YORK, Aug. 2, 1877.

H. W. JOHNS M'FG CO.

Dear Sirs: In my application of it, as Boiler and Steam Pipe Covering, your Asbestos Felting (single and double air chamber) gives most complete and thorough satisfaction, and is far superior to any of the various non-conductors that I have tried or am familiar with. I very willingly recommend it to engineers, and the public generally, as the best non-conductor of heat that has been put upon the market.

Yours respectfully,

CHAS. D. DOUBLEDAY, *Engineer for H. K. & F. B. Thurber & Co.*

HARTFORD, CONN., Jan. 8, 1881.

Gentlemen: I saw Mr. Bosworth yesterday, and he says he will use your Steam Pipe Covering. I showed him some that had been on our steam pipe three years, and looked as good as the day it was put on.

Yours truly,

R. W. GRAY, *Eng'r Cheney Block.*

H. W. JOHNS M'FG CO., New York.

PENNSYLVANIA R. R. CO.,

PHILADELPHIA, Nov. 12, 1880.

Gentlemen: A copy of your letter of the 4th inst., addressed to Mr. Ely, Supt. Motive Power, having been referred to this office, I would say in reply that a sample of Asbestos (Board) to be used for steam pipe joints was sent to Altoona by Mr. R. H. Soule, of N. C. R. R. It was placed in service, and it was found that the joints lasted longer than the ordinary gum joints.

Yours truly,

ENOCH LEWIS, *Purchasing Agent.*

METROPOLITAN GAS WORKS, ENGINEER'S OFFICE, FOOT 42D ST.,

NEW YORK, July 5, 1876.

Dear Sir: I would state that I have used your Asbestos Cement in joining and patching retorts at these Works, and find it fully answers the purpose. I consider it a superior material to Sellar's Cement.

Yours respectfully,

I. HERZOG, *Engineer.*

CITIZENS' GAS LIGHT CO., ENGINEER'S OFFICE, COR. 5TH AND HOYT STS.,

BROOKLYN, May 13, 1876.

Dear Sir: I have thoroughly tested at these Works your Asbestos Cement for patching retorts, and have found it superior to any Cement or mixture I have ever used for the same purpose; a retort thoroughly repaired with this cement being to all intents as good as new, and will stand any needed scrubbing without needing renewal in the old breaks.

Very truly yours,

WM. HENRY WHITE, *Engineer.*

OFFICE PROVIDENCE GAS CO.,

PROVIDENCE, R. I., Feb. 23, 1877.

Dear Sir: The Asbestos Cement received from you last October proved very serviceable and quite satisfactory, in mending and patching retorts, as well as for various uses about the Gas Works, and we shall soon order more.

Very truly,

A. B. SLATER, *Treas.*

MECHANICSVILLE, N. Y., March 23, 1876.

I have used some of your Asbestos Board on a Union valve, and from the time I put it on to the present, which is two years, it has not leaked a drop.

Yours respectfully,

JOSEPH EAGAN.

MILWAUKEE, Nov. 1, 1877.

Dear Sir: I have been using your Asbestos Packing, Board, etc., for the past six months for pistons, valve stems, steam joints, etc., and find it a very desirable article.

Yours respectfully,

ROBERT BRUCE, *Engineer Steamer Depeve.*

MALONE, N. Y., Nov. 23, 1877.

Dear Sirs: Please send us another keg of Cement for mending retorts. It has proved much the best thing for the purpose we ever tried.

Yours, &c.,

GEO. HAWKINS, *Secy. Gas Co.*

The Centennial Prize Medal and Diploma of Merit were Awarded for our Asbestos Materials, with the following Report of Judges :

"Roofing excellent, durable, economical, especially resisting outside heat and fire."
 "Asbestos Covering on wood, put on in the liquid state, and solidified by the action of the air."

"Greatest success in fire-proof outer and inner coatings, and Covering Felt."

First Premium awarded by

American Institute '70, '71, '72, '73, '74, '75, '77, '78,
 '79, '80 and '81.

New Hampshire State Fair, 1871.

Louisiana State Fair, 1870.

Pennsylvania State Fair, 1872.

Texas State Fair, 1871.

Rhode Island State Fair, 1872.

N. E. Agricultural Society, 1874.


Chilian Exposition, 1875.

N. C. Agricultural Society, 1877.

Atlanta Cotton Exposition, 1881.

Inter-Colonial Exposition, Melbourne, Australia, 1880.

Gold Medals (2), Matanzas Exposition, 1881.

 The Highest Premiums have in every instance been awarded to our ASBESTOS MATERIALS at all Expositions and Fairs, wherever exhibited.

Extracts from American Institute Reports.

Highest Premium (Medal) Awarded.

1870.—H. W. JOHNS' IMPROVED ROOFING.—"Is strong and flexible; unaffected by the sun's heat; practically fire-proof, and is really an article of the first order of merit."

Signed, HORACE GREELEY, Pres't.

1871.—"These materials prove, by their general use and test of time, to answer their purpose fully." *"The best article in the market."*

1872.—"It is very strong, repels water effectually and is well adapted to resist climatic influences."

1873.—"This material is one of unusual merit, as its continued success demonstrates; and we recommend it to all as the best in use for the purposes claimed."

1874.—"We consider the Asbestos materials entitled to the Diploma of continued excellence."

1875.—"The continued success attending the introduction of these articles proves beyond question their value for the many purposes named. The Roofing we consider superior to all other Roofing materials in the market, and entitled to the Bronze Medal of the Institute."

1877, 1878, 1879, 1880, 1881.—"MEDAL OF SUPERIORITY."



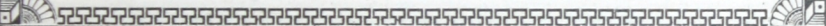
To Consumers.

We can guarantee a saving
of from 10 to 25 per cent. on your
customary outlays for





PAINTS,

Roofing, Steam Pipe & Boiler Coverings, &c.



Our materials can be readily
applied without the aid of skilled
labor.

Samples, Price Lists, and any
further desired information, will be
promptly furnished.



CAUTION

*We caution the Public against
purchasing fraudulent and
worthless imitations of our*

ASBESTOS

MATERIALS.

*The genuine bear our name
and trade mark, or dates of
patents.*

H. W. Johns M'f'g Co.

87 MAIDEN LANE,

Established 1858.

NEW YORK.